
RMRS OPERATIONS INSTRUCTIONS

COPY # 35

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TECHNOLOGY SITE****Page 1 of 1**

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ADMIN RECORD
SW-A-002488



Rocky Mountain
Remediation Services, L.L.C.
... protecting the environment

COPY # 35

WORK INSTRUCTION

BATTERY FILLING

OPS INSTR. 006
REVISION 0
SEPTEMBER 17, 1997

REVIEW/CONCURRENCE: M. H. Wheel, VICE PRESIDENT, RMRS

APPROVED: P. H. H., MANAGER, WSF OPERATIONS

1. PURPOSE

The purpose of this work instruction is to provide guidance for filling forklift batteries with water.

2. SCOPE

This work instruction applies to all Solid Waste Operations personnel when performing this task.

3. INSTRUCTIONS

- 3.1 Inspect the connections and wires on the fill kit unit making sure all are in good condition.
- 3.2 Start with at least 5 gallons of water in fill units tanks. Plug in unit.
- 3.3 Connect the fill line from the fill unit to the quick-disconnect on the forklift battery located under the forklift seat.
- 3.4 Turn on the switch and observe the red balls rotating at the connection between the disconnects. When the rotating balls stop, the battery is filled. (Depending on the use of the truck, more or less water may be needed). Turn off the switch.
- 3.5 Disconnect the fill unit from the battery and replace the cap on the battery side hose. Position hose so that it will not be caught by the seat as it is returned to the down position.
- 3.6 Fill out inspection form on the forklift indicating the addition of water. Fill out the sticker on the side of the battery.
- 3.7 See attachment 1 for troubleshooting and maintenance.

4. RECORDS

"The following documents generated during the performance of the tasks defined in this document must be copied and distributed as such".

<u>Document</u>	<u>Record type</u>	<u>Disposition</u>
Forklift inspection sheet	Non-QA, Department	Copies to be kept by the department for 1 year.

POWERSTREAMTM

SINGLE POINT WATERING

ACCESSORIES

120 VAC POWERED PORTABLE WATER CART SPECIFICATIONS

1. PUMP CAPACITY:

The Portable Water Cart can fill up to 36 volt (18 cell) batteries. Larger batteries require one or more Pressure Control Valves.

2. POWER SUPPLY REQUIRED: 120 VAC, 60 HZ, 3 A

3. PRESSURE SETTING:

Pressure relief by-pass factory set to maintain a maximum pressure of 20 psi.

4. OPERATION:

A. Top batteries after charge.

B. Make sure Cart tank has adequate water.

C. Connect water supply hose quick coupling to battery mounted socket.

D. Make sure tubing is not kinked. Press rocker switch to start pumps.

E. Observe rotation of balls in flow indicator as water flows into battery.

F. When flow indicator balls stop rotating, all cells have been topped. The Cart maintains 20 psi pressure until the switch is turned off.

G. Press rocker switch to turn off pumps and relieve system pressure.

H. Observe draining of supply hose back into the cart tank. (This will take about 10 to 20 seconds)

I. Disconnect supply hose at the quick coupling. Replace dust cover into quick coupling socket on battery. This keeps debris from entering socket and refill system tubing and it will prevent water from dripping out onto the battery top.

5. MAINTENANCE: CLEAN PUMP SUCTION FILTER MONTHLY.

6. TROUBLESHOOTING: (DISCONNECT POWER CORD FROM ELECTRIC OUTLET)

A. If Pump Fails To Start:

1. Check fuse.

2. Make sure wires are properly connected. Remove back panel to check.

B. If Flow Rate is too low:

1. Make sure there is adequate water in tank. If water level is too low, air could be drawn into pump suction, reducing flow and pressure.

2. Clean inlet filter at end of pump suction hose inside tank.

CAUTION: Operation with clogged filter or low water level in tank could cause inadequate flow and failure of valves to shut off. Make sure filter is cleaned periodically and that cart tank is adequately filled with water. If overflow should occur, it is necessary to adjust battery cell level promptly to avoid damage to refill valves. Damage could occur if valve is submerged in electrolyte for an extended period.

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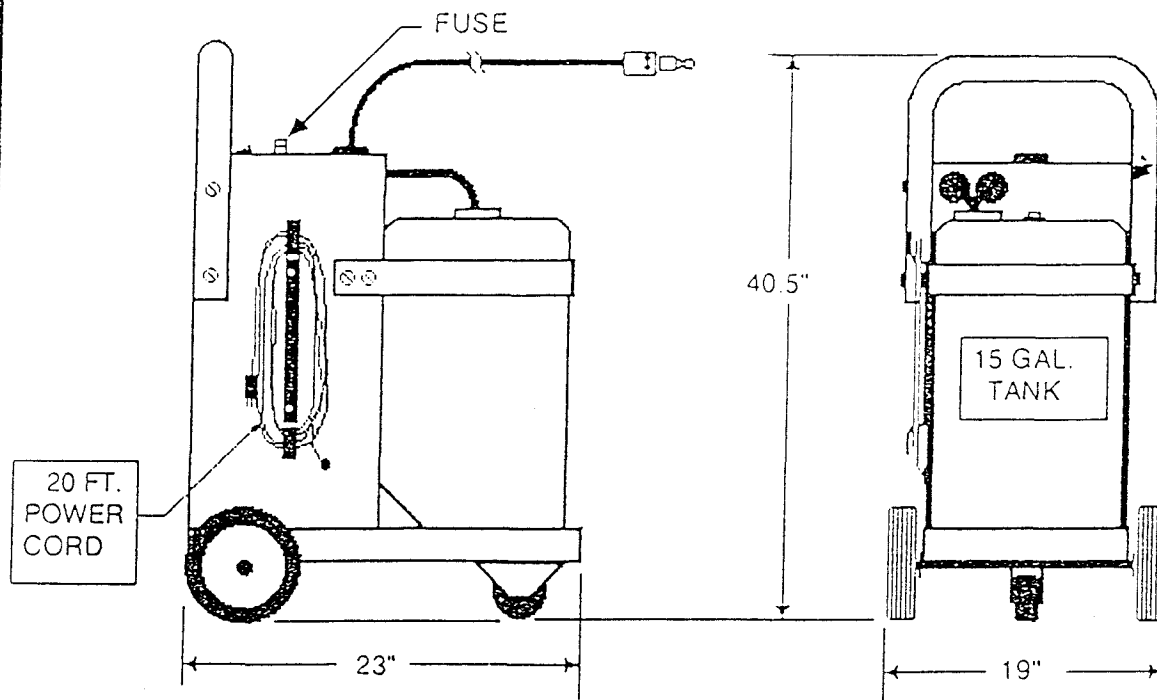
POWERSTREAM™

SINGLE POINT WATERING

ACCESSORIES

120 VAC PORTABLE WATER CART

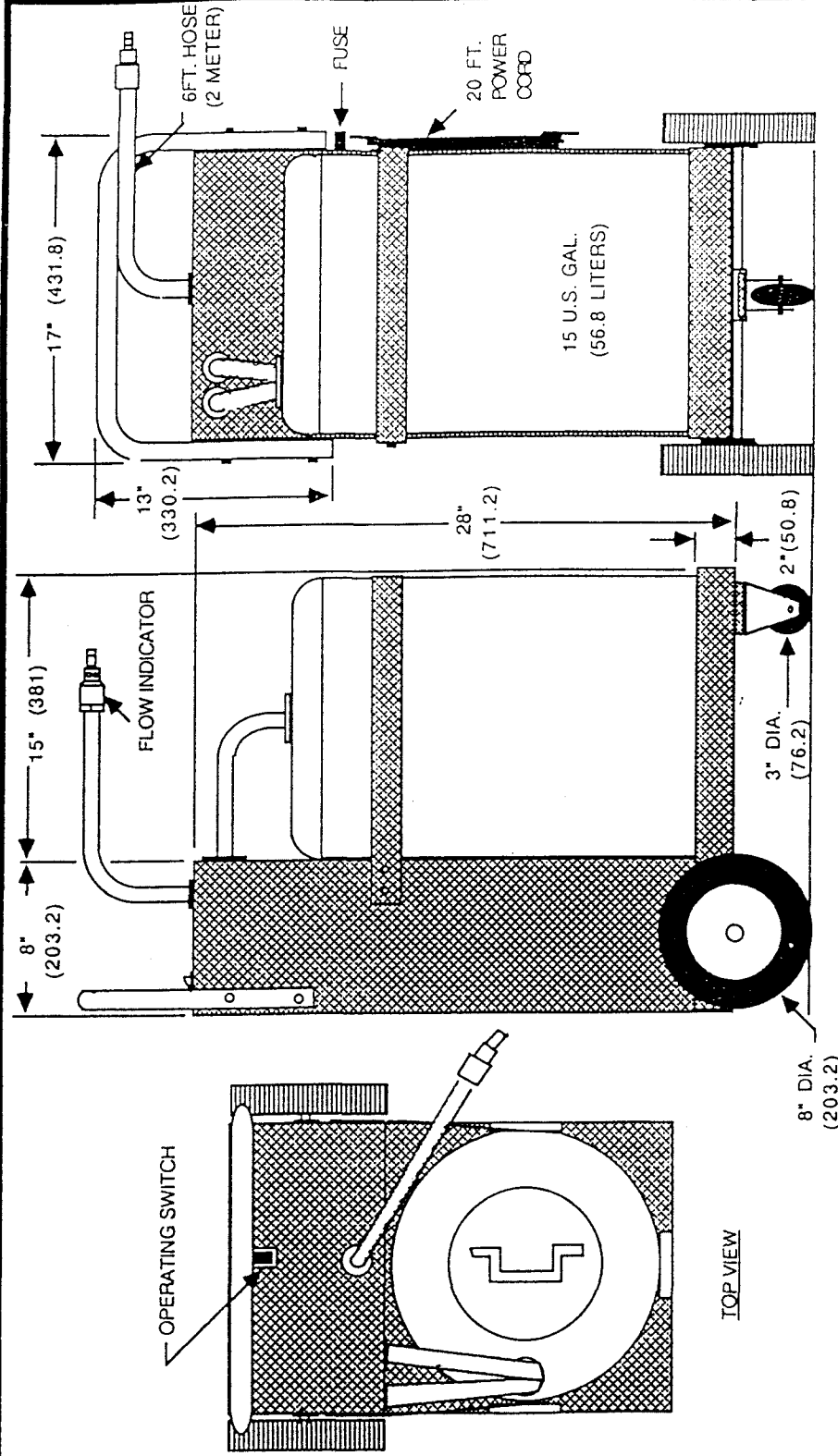
SPECIFY PART NO. PWC-120AC



- PROVIDES SAME WATER PRESSURE AND FLOW AS OUR 12VDC BATTERY POWERED CART.
- USE WITH ALL POWERSTREAM SINGLE POINT WATERING SYSTEMS.
- USE WHERE AC POWER IS CONVENIENT TO THE FILLING OPERATION.
- OFFERS REDUCED COST AND MAINTENANCE SINCE A BATTERY AND CHARGER ARE NOT REQUIRED.
- SHIPPED ASSEMBLED, READY FOR USE.

WARNING: USE ONLY A WATER SYSTEM SUPPLIED BY FLOW-RITE CONTROLS. USE OUR MWS-100-12, OR OUR PORTABLE CARTS PWC-12VDC OR PWC-120VAC. USING ANY OTHER COULD INVALIDATE YOUR WARRANTY.

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PORTABLE WATER CART ASSEMBLY 120VAC POWERED

Scale: 1/8	Date: 6/5/91	Drawn By: DNC
Tolerance:		Approved By:
Material:		Drawing No.: PWC-120VAC

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